

IN THE CLAIMS

Please amend claim 1 and add new claim 2 so that the claims hereafter read as follows:

1. (Currently Amended) A real-time computer-based viewing system comprising:

a database of first software objects in registration with one another, wherein at least one of the first software objects corresponds to a physical structure which is to be viewed by the system;

a database of second software objects, wherein each second software object and at least one of the first software objects corresponds to a graft which is to be deployed adjacent to the physical structure which is to be viewed by the system, and wherein the second software object is placed in registration with at least one of the first software objects;

an endoscope for acquiring data about the physical structure when the physical structure is located within the endoscope's data acquisition field, wherein the endoscope is capable of being moved about relative to the physical structure;

generating apparatus for generating a third ~~second~~ software object using data acquired by the endoscope, wherein the third ~~second~~ software object corresponds to the physical structure currently being viewed by the endoscope;

registration apparatus for positioning the third ~~second~~ software object ~~into the database~~ in proper registration with the first and second software objects ~~already contained in the database;~~ and

processing apparatus for generating an image from the software objects ~~contained in the database~~, based upon a specified point of view.

2. (New) A real-time computer-based viewing system according to claim 1 wherein at least one of the second software objects corresponds to an arterial stent which is to be deployed in the aorta of a patient.